

TD Lighting Solutions

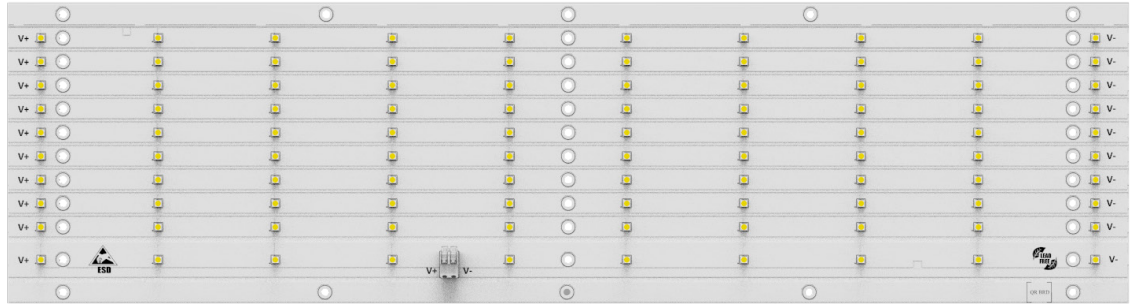
X-MS134500LMxx-2835xx-100

Square Series

www.tlsteknoloji.com

TD Lighting Solutions

PRODUCT PHOTO



SPECIFICATIONS

- Default driving method is constant current input
- CCT Range from 2000°K up to 6500°K
- Luminous flux range from 2660 lm to 4703 lm
- Efficacy of the module up to 200 lm/W
- CRI 80 is standart, CRI 70 and CRI 90 are available
- Outstanding system color tolerance MacAdam 3 over the full operating area
- Simple installation (e.g. screw)
- Long life-time > 60,000 hours
- 5 years guarantee at specified conditions



For your orders please call us:

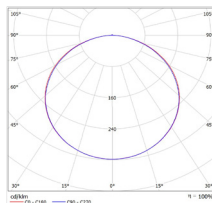
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APPLICATIONS



Office Lighting

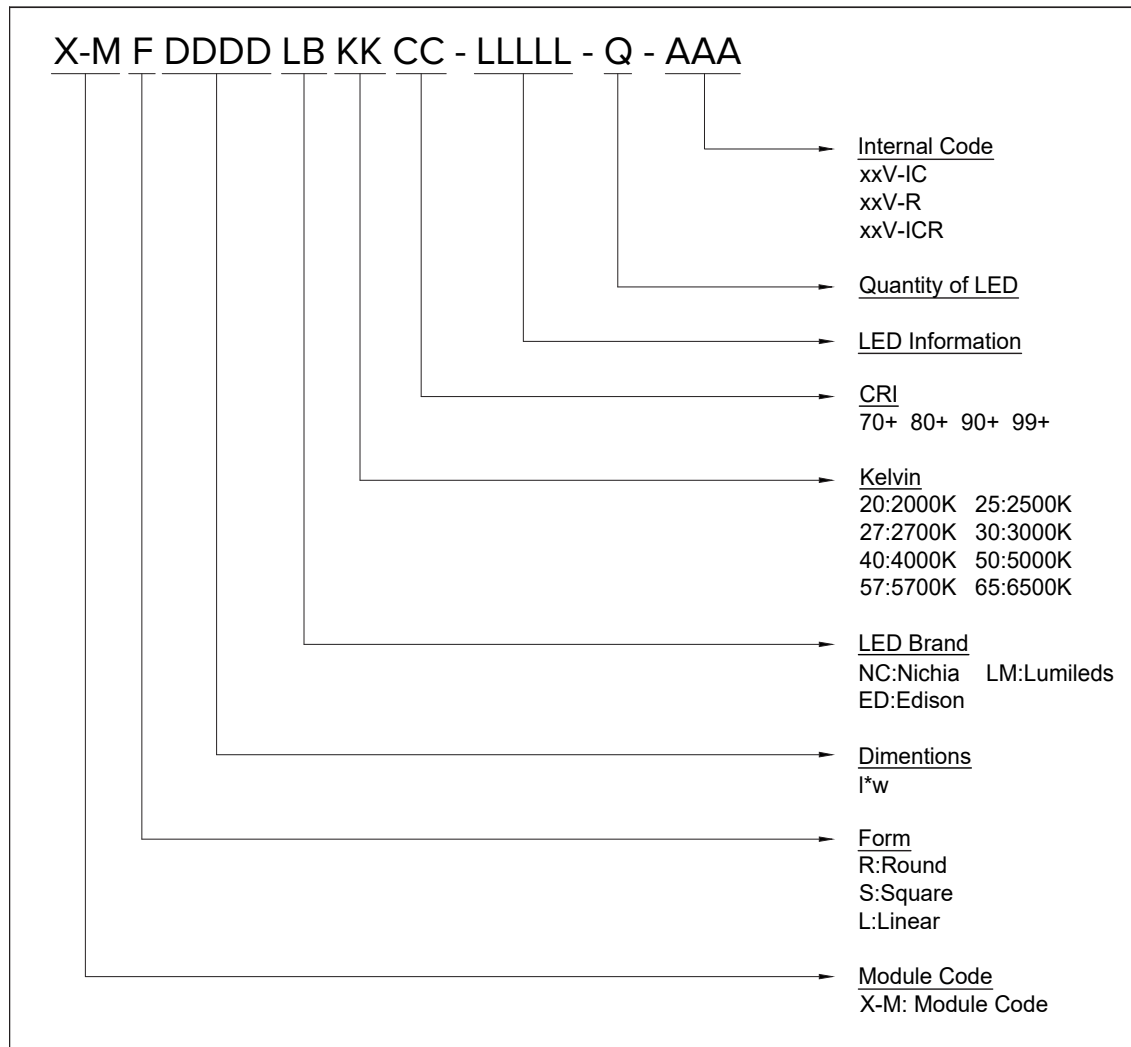
PHOTOMETRY



TECHNICAL DATA

Beam Angle	120°
Ambient temperature range	-25° ~ +55°C
Tc max	85°C
Max. DC forward current	900mA
Typical voltage of LED Module at max current	30 V
Insulation test voltage	2kV
ESD classification	Class 1
Risk group (EN 62471:2008)	1
Type of protection	IP00

ORDERING INFORMATION



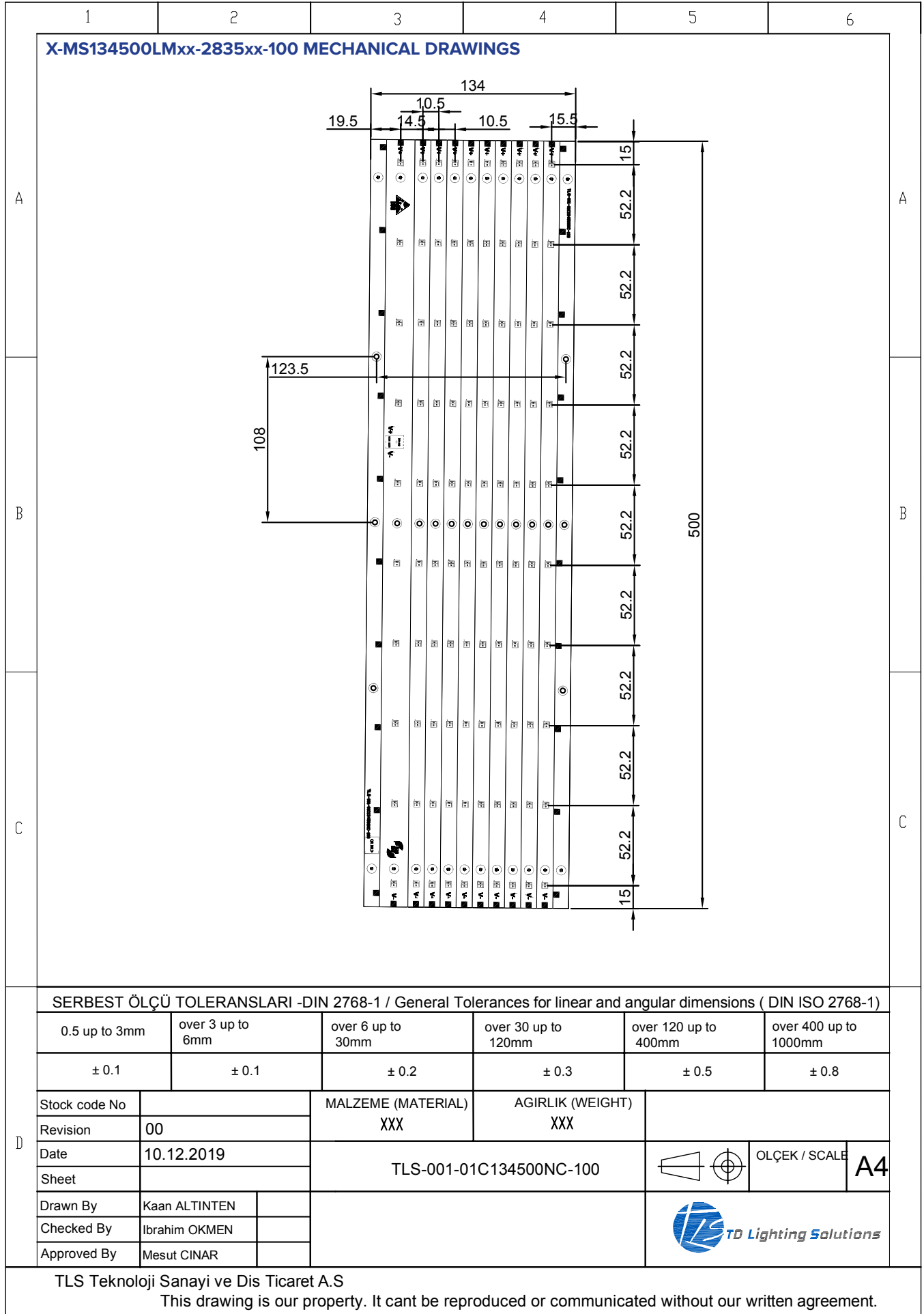
DRIVING CURRENT VS LUMEN OUTPUT SPECIFICATION

Common Characteristic [Tj : 85°C];			
Module Code	X-MS134500LMxx-2835xx-100		
PCB Material	FR4	Electrical Connection	
Operating Temperature (°C)	-40 ~ +85	Parallel	10
Storage Temperature (°C)	-40 ~ +55	Series	10
Thermal Conductivity (W/m-K)	1>	LED Quantity	100
LED 2835HE			
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	26,60	27,00	27,50
Module Operating Current (mA)	500	700	900
Branch Operating Current (mA)	50	70	90
Module Power (W)	13,30	18,90	24,75
Module Light Output (lm)	2.660	3.686	4.703
Module Efficiency (lm/W)	200	195	190
LED 2835RA-2F1			
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	26,80	27,20	27,80
Module Operating Current (mA)	500	700	900
Branch Operating Current (mA)	50	70	90
Module Power (W)	13,40	19,04	25,02
Module Light Output (lm)	2.385	3.275	4.128
Module Efficiency (lm/W)	178	172	165
LED 2835RA-2Q1			
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	28,00	28,50	29,30
Module Operating Current (mA)	500	700	900
Branch Operating Current (mA)	50	70	90
Module Power (W)	14,00	19,95	26,37
Module Light Output (lm)	2.338	3.132	3.876
Module Efficiency (lm/W)	167	157	147

The table below shows how to Module Light Output changes depending on CCT (°K)

LED	Lumen Output Multiplier				
	2700°K (CRI 80)	3000°K (CRI 80)	4000°K (CRI 80)	5000°K (CRI 80)	6500°K (CRI 80)
2835 HE	1	1,09	1,2	1,2	1,2
2835 RA-2F1	0,875	0,916	1	1	1
2835 RA-2Q1	0,74	0,78	0,86	0,86	0,86

Relative luminous intensity versus CCT (°K)

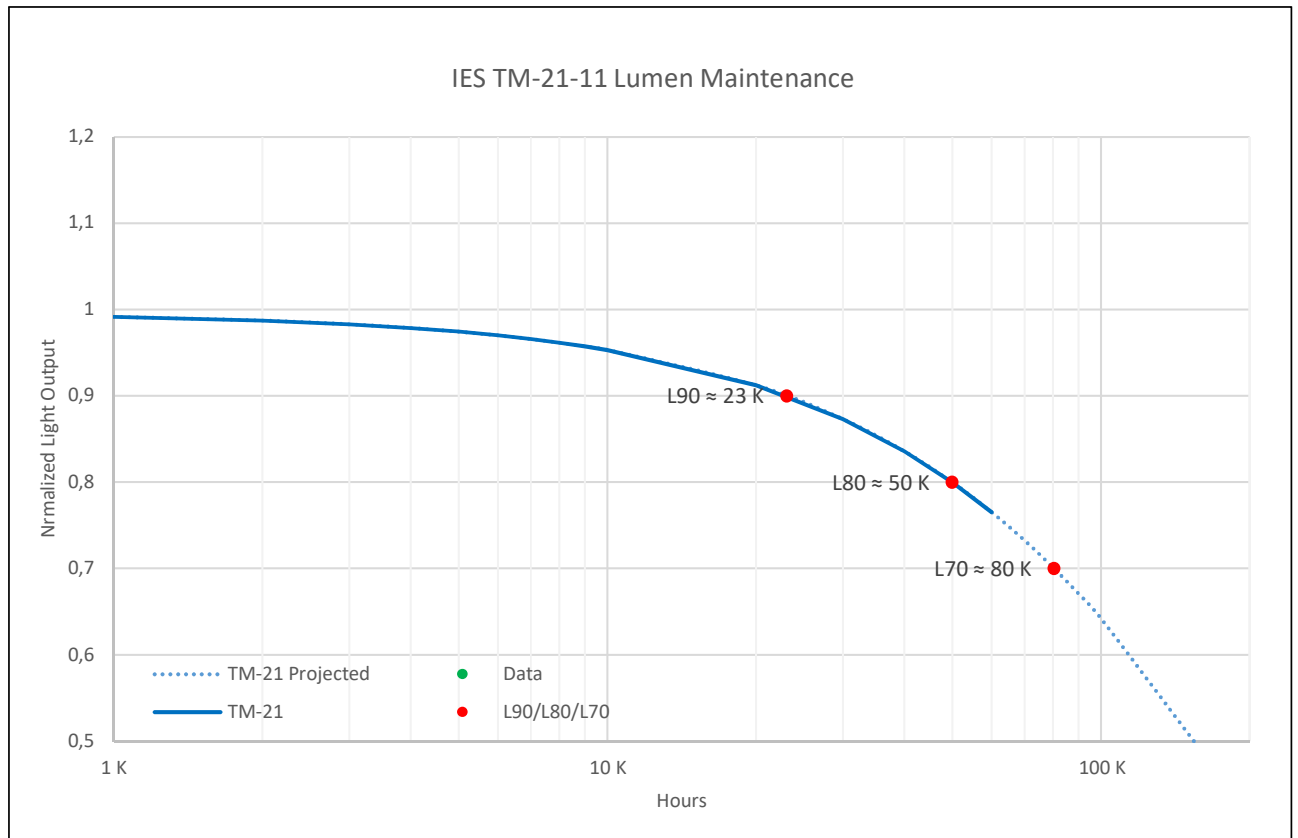


LIFE TIME

MODEL NUMBER: 2835RA-xxx

Manufacturer	Lumileds
Model	2835RA
Test Report applies to the following part number	L128-4080RA3500xxx
Drive current for each LED package/array/module (mA)	150
In-situ case teperature (Tc, °C)	85

Part Number Tested	L128-3080RA35000Q1
Sample size	25
Number of failures	0
DUT drive current used in the test (mA)	150
Test duration (hours)	9000
Test duration used for projection (hour to hour)	4000-9000
Tested case temperature (°C)	85
α	4,3890E-06
B	9,9600E-01
Calculated L70(10k) (hours)	80352
Reported L70(10k) (hours)	> 54000



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